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TECH CENTER 1600/2900  
APR 11 2002  
RECEIVED

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/010,742

DATE: 12/19/2001

TIME: 10:34:41

Input Set : A:\491c7.app.txt

Output Set: N:\CRF3\12192001\J010742.raw

4 <110> APPLICANT: Dillon, Davin C.  
 5 Day, Craig H.  
 6 Jiang, Yuqiu  
 7 Houghton, Raymond L.  
 8 Mitcham, Jennifer L.  
 9 Wang, Tongtong  
 10 McNeill, Patricia D.  
 11 Harlocker, Susan L.  
 12 Bennington, Angela Ann  
 13 Zehentner, Barbara  
 14 Fanger, Gary R.  
 15 Retter, Marc W.

20 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
 21 DIAGNOSIS OF BREAST CANCER

24 <130> FILE REFERENCE: 210121.491C7

C--> 26 <140> CURRENT APPLICATION NUMBER: US/10/010,742  
 27 <141> CURRENT FILING DATE: 2001-11-30  
 29 <160> NUMBER OF SEQ ID NOS: 307  
 31 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 33 <210> SEQ ID NO: 1  
 34 <211> LENGTH: 298  
 35 <212> TYPE: DNA  
 36 <213> ORGANISM: Homo sapiens  
 38 <400> SEQUENCE: 1

39 ctgaacagtgc tagctccgt gctggagaca gtcctgctga tcacctgaat gctgaacatg 60  
 40 cttcggtggg ctatctttt ttttctctgt agtctcttt gtgatctcat ctgcctttct 120  
 41 gctcgagtga tgacagccctt gaaccttgtc cttccttgct tcagagggga aaaaggaatt 180  
 42 ggatttcctc agggctctgg gcctggctgt tggcttgagg ttccgagact gatgaatcca 240  
 43 agcatgcttgc agggccttgc cgggggtcat gcgaagagaa gttcccata ccaaacac 298

45 <210> SEQ ID NO: 2  
 46 <211> LENGTH: 276  
 47 <212> TYPE: DNA  
 48 <213> ORGANISM: Homo sapiens  
 50 <400> SEQUENCE: 2

51 tggaaagggtgt ggtgactaag gcccacgggtt attgggtgaa atttgagatt gtaggccaaac 60  
 52 tttatccatca agtttctgaa cttaggcaaa atattcatcg caaagtctct agcgtcatat 120  
 53 ttttctcacc taaattacgt ttccacgaga ttattttat atagttggtc tatctctgca 180  
 54 gtccttgaag gtgaagggtgt gtgttacttag gctgtgtttt gggatgtcag cagttggctg 240  
 55 aagttagttgc tgcaataaat gttaagttga aaccc 276

57 <210> SEQ ID NO: 3  
 58 <211> LENGTH: 405  
 59 <212> TYPE: DNA  
 60 <213> ORGANISM: Homo sapiens  
 62 <220> FEATURE:  
 63 <221> NAME/KEY: misc\_feature  
 64 <222> LOCATION: 141  
 65 <223> OTHER INFORMATION: n = A,T,C or G

ENTERED

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Input Set : A:\491c7.app.txt  
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67 <400> SEQUENCE: 3  
68 tcacatggct attcattta ttttagtagtt ttgaaatgtt agcaaata aggtattgt 60  
69 aaagcatctt tcattataaa gagatttagta atattcacca atcatgcca tgagattata 120  
70 cactctgcca aagactacta naaaaatttg atcattatta aattcaatgt tatttgacag 180  
71 tgtgaactct atgtaacacgc acaaattctg gacttgaat ctggctgctg tcctcacctg 240  
72 aaccattaaa atgacottgt taacaaggaa ggaatcaatg gggaaatatc acaaccagag 300  
73 attggctgtg tgtccaaggg tgctttgtct tggtgccagg atcagactgt gaaatcacag 360  
74 aggcaagctg atgtcatcg aggtgactct gcccccaaca caatg 405  
76 <210> SEQ ID NO: 4  
77 <211> LENGTH: 696  
78 <212> TYPE: DNA  
79 <213> ORGANISM: Homo sapiens  
81 <400> SEQUENCE: 4  
82 cattgtttg ggcactgtta cagtgaaacg gaaacgtgga aaatcacagc caaactgtgc 60  
83 tctgaaagaa cactctatgt ctaatatagc cagcgtcaag agtccttatg aggccggagaa 120  
84 ctccggggaa gagctggatc agaggtattc caagggcaag ccaatgtgta acacatgtgg 180  
85 gaaagtgttt tcagaagcca gcagtttgag aaggcacatg agaatacata aaggagtcaa 240  
86 accttacgtc tgccacttat gtggaaaggc atttacccaa tgtaaccagc taaaaacgca 300  
87 tgtaagaact catabaggtg agaagccata caaatgtgaa ttgtgtgata aaggatttg 360  
88 tcagaaatgt cagctagtct tccatagtgc catgcattat ggtgaagaaa aaccctataa 420  
89 atgtgatgtt tgcaacttac agtttgcac ttctagcaat ctcaagatc atgcaaggaa 480  
90 gcatagtgga gagaaggcat atgtctgtga taggtgtgga cagagatttgc tcaagccag 540  
91 cacactgacc tatcatgtcc gtaggcatac tggagaaaag cttatgtat gtgataacctg 600  
92 tggttggca ttgtctgtct ctatcttctt tatcactcat tctcgaaaac atacaggtaa 660  
93 gtttgacagg gagaagactgc ttaaaataaa gttata 696  
95 <210> SEQ ID NO: 5  
96 <211> LENGTH: 580  
97 <212> TYPE: DNA  
98 <213> ORGANISM: Homo sapiens  
100 <220> FEATURE:  
101 <221> NAME/KEY: misc\_feature  
102 <222> LOCATION: 332  
103 <223> OTHER INFORMATION: n = A,T,C or G  
105 <400> SEQUENCE: 5  
106 acatcaaaaa gaaaaatattt ttgacttgct tttcttctgt aaatcctccc atctcactaa 60  
107 tatttacaac aatccagagt agcgtttatg agacactgaa aaagacaggg agggaaatcct 120  
108 ttttcaagat atgaagtcaag aacctgaatg tagacatcg acagagaagt cctcaaccac 180  
109 aaacctgtcc tccagctcta gagagagtaa ggctgttattt ccaaccttga gatttttcat 240  
110 tacattttcc ctttttggg tgttaaattt tttccaagaa tgctgtactt gtaaaaatgaa 300  
111 ttttatttcta gctacaaaac atttcattta anaaaaaccgc attttataatc cttgtgtgaa 360  
112 atgctcccaa aagccatcaa gatatggaga caacagattt taaaacata aatctaata 420  
113 tatgggcttg aaacagtatg aacatttaac agatgtacac gatatcatat ttatatttg 480  
114 ttgtcatgag atgaaaaggcc tggaggcaga tggtgattaa tcataattcc tgagcttcta 540  
115 cagaaaatttt aaaatgaaat tactaactgc ttaaaattat 580  
117 <210> SEQ ID NO: 6  
118 <211> LENGTH: 557  
119 <212> TYPE: DNA  
120 <213> ORGANISM: Homo sapiens  
122 <400> SEQUENCE: 6

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123 attacattca agataaaaga tttattcaca ccacaaaaag ataatcacaa caaaatatac 60  
 124 actaactaa aaaacaaaag attatagtga cataaaatgt tatattctt ttttaagtgg 120  
 125 gtaaaaagtat ttgtttgct tctacataaa ttttattca tgagagaata acaaataatta 180  
 126 aaatacagtg atagttgca tttcttctat agaatgaaca tagacataac cctgaagctt 240  
 127 ttagttaca gggagttcc atgaagccac aaactaaact aattatcaaa cacatttagt 300  
 128 atttccagac tcaaataagat acacattcaa ccaataaaact gagaagaag catttcatgt 360  
 129 tcttttctc ctttaattt acctcagaag atgcactatc taattcatga gaaatacgaa 480  
 131 atttcaggtt ttatcttct tccttacttt tgggtctac aaccagcata tcttcatggc 540  
 132 tgtgaaattc atggctg 557  
 134 <210> SEQ ID NO: 7  
 135 <211> LENGTH: 653  
 136 <212> TYPE: DNA  
 137 <213> ORGANISM: Homo sapiens  
 139 <400> SEQUENCE: 7  
 140 cattgtgttg ggggaagtag ggaatattat tgagggcaggg taagaaatgg tttacaattc 60  
 141 tgaaaggatg atcaaagaaa aactcattgt tgagaaagta atatgagtag agacctgaaa 120  
 142 taagtgaggg agtgcacgggt tatgtccagg gcaataatgt ttctgacaga ggggagagtc 180  
 143 atttcagaag cctagaggca tggtaaaagc tgtagaaatg ccagacagtc accaggccaa 240  
 144 gatgtgcaga tatccataag tgaaggggaa agaaatacaa aatgaaggca gagaatcac 300  
 145 aaaattggat aagtgggcc ttgtaggcca tgatgattt agttcataact aaaattgagt 360  
 146 taggctgcca ttgtagggtt tggtagctca gggataacat ggtctgaatt ttatttctaa 420  
 147 aaggatcaact ccaagtgtt cattgcaaaag aataacgtaa ggtggctgt gttagtagact 480  
 148 aaagtggaaat atagaacacag tgaataacat ttgtggtaa agtttggtag atttgaccac 540  
 149 acaaaaattgt gaaattacct gtggcacaaa aaatatcaaa ggtacataca gacagaagaa 600  
 150 ctttgcattt gtttattat gtccttaatt tataatgtt ataccagtag aag 653  
 152 <210> SEQ ID NO: 8  
 153 <211> LENGTH: 456  
 154 <212> TYPE: DNA  
 155 <213> ORGANISM: Homo sapiens  
 157 <400> SEQUENCE: 8  
 158 cattgtgttg ggctaattcct tggctctat ccaccctgcc tagcaattt tctcaaagct 60  
 159 tcaagttccct gccatctaca tggcccccagg tcaaccaatc aatggctcag acagataagc 120  
 160 caacatgcat cccgcggag ctgcccggaaa tgctgaagga gtttgccaaa gcccccattc 180  
 161 gggcgcagcc gcaggacctc atccagtgg gggccgatta ttttgagggcc ctgtcccgtg 240  
 162 gagagacgccc tccggtgaga gacgggtctg agcagtcgc ttgtgttaac tggcagagc 300  
 163 taacacctga gctgttaaag atcctgcatt ctcaagggtgc tggcagactg atcatccgtg 360  
 164 cagaggagct ggcggcggatg tggaaagtgg tgaatctccc aacagatctg tttatagtg 420  
 165 tgatgaatgt gggtcgttc acggaggaga tcgagt 456  
 167 <210> SEQ ID NO: 9  
 168 <211> LENGTH: 512  
 169 <212> TYPE: DNA  
 170 <213> ORGANISM: Homo sapiens  
 172 <400> SEQUENCE: 9  
 173 gtttttgcattt catttttattt taacaatgtt taacaatgtt agtccacata taagatacc 60  
 174 aagctttaaa tatctataca tataaaactgtt tttcaacatc tttggcttca aaacagtaaaa 120  
 175 attgttttc caatataaaa caagtcaaat ttggaaaagg cataaaatctg tatgaacatc 180  
 176 ctgtatccat ggagatgtca tgactaaatt cagaataatgc ctcatcttc ttgtttttg 240  
 177 ctttctttagt tctgagttct gcatccaattt ctgttttata catagtttc tataagattt 300

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178 tacccctttt aaacagtgtc tattgatata tattcttaggt gtctggaagt cttttctat 360  
 179 agtcggctct tgggtgtctc tggaaatatg aatggaagga gcagagtgaa aataaatctg 420  
 180 agggcaatat tcataaataa tccaaagagct acactgtagt caactctccc cagagcctga 480  
 181 ccacagtgtt tccctctctc ctcctccaa cc 512  
 183 <210> SEQ ID NO: 10  
 184 <211> LENGTH: 308  
 185 <212> TYPE: DNA  
 186 <213> ORGANISM: Homo sapiens  
 188 <220> FEATURE:  
 189 <221> NAME/KEY: misc\_feature  
 190 <222> LOCATION: 214, 27.6  
 191 <223> OTHER INFORMATION: n = A,T,C or G  
 193 <400> SEQUENCE: 10  
 194 atgtttatga agacctttaa atatttatat agaaaacaaaa tgtcattgca acctaacatc 60  
 195 atccattaaa aataaaagga aaggaaaacg gcagggaaaa gtgcagtaat aacaaatgg 120  
 196 gacatgttg gtcttaagca tcatacgaaa ctcatattt ccaatgaaac aaggatttt 180  
 197 agacccatct ttggaaatga ttcccaaatt aganaaaccat caggtctcaa aaaaggaagg 240  
 198 gtcatcaaag tccatccagc ccagccaccc tgaggngct gtatctctc aacaagccca 300  
 199 acacaatg 308  
 201 <210> SEQ ID NO: 11  
 202 <211> LENGTH: 510  
 203 <212> TYPE: DNA  
 204 <213> ORGANISM: Homo sapiens  
 206 <220> FEATURE:  
 207 <221> NAME/KEY: misc\_feature  
 208 <222> LOCATION: 98, /327  
 209 <223> OTHER INFORMATION: n = A,T,C or G  
 211 <400> SEQUENCE: 11  
 212 attatatgaa tattttatgt caaaatgctt aacacttaaa attagcaaag cgtcatttaa 60  
 213 attaaaattc catttaacta aagatggta accccaanaa attgtacagt agttgatttc 120  
 214 tgcttatataa tgccagtcct atgccataca ataagaactg caacattagc tgtcacttcc 180  
 215 tccattgctc ttctgaccc taaggatga gggaggggac tcagacacaa aacacaaccc 240  
 216 aaataaaactg tgcagtgatt ctaataggta ataaacccaa tctaagttgt ccaaacagct 300  
 217 gaagaataac tgcaggtatt gttccanagc tgatacgagg ttttgctttt acagcctgg 360  
 218 aaaaaggcttg cactaggta gaagtccacag ttaaggatg catgttctgt aaatagttac 420  
 219 tacatataca catttactgt ctgtaaacac tagaaatata cattagacag agtaccctca 480  
 220 caagttgggt acagttaaa aaagaagatg 510  
 222 <210> SEQ ID NO: 12  
 223 <211> LENGTH: 611  
 224 <212> TYPE: DNA  
 225 <213> ORGANISM: Homo sapiens  
 227 <220> FEATURE:  
 228 <221> NAME/KEY: misc\_feature  
 229 <222> LOCATION: 196  
 230 <223> OTHER INFORMATION: n = A,T,C or G  
 232 <400> SEQUENCE: 12  
 233 agttttataa aatattttat ttacagttaga gcttacaaa aatagtctt aattaataca 60  
 234 aatcccttta gcaatataac ttatgtact atctctcaa aaacgtgaca ttgattata 120  
 235 acacataaaac tacatttata gttgttaagt cacctgttag tataaatatg ttttcatctt 180

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W--> 236 ttttttgtaa taaggnacat accaataaca atgaacaatg gacaacaaat cttatttgt 240  
 237 tattcttcca atgtaaaatt catctctggc caaaaacaaa ttaaccaaag aaaagtaaaa 300  
 238 caattgtccc tctgttcaac aatacagttc ttttaatta tttgagagtt tatctgacag 360  
 239 agacacagca taaaactgaa agcaccatgg cataaaagtct agtaacatca tcctcaaaag 420  
 240 ctttttccaa tgtctttcct tcaactgtt attcagtatt tggccagttc aaataaagat 480  
 241 tggtctcaac tctcttttc attagtctca agtggccata ttatgcactg agtttcaga 540  
 242 ccttcccaac tggcatgtgt ttaagtgtg agtttttc tttggctca agtggagttt 600  
 243 cacaacattt a 611  
 245 <210> SEQ ID NO: 13  
 246 <211> LENGTH: 394  
 247 <212> TYPE: DNA  
 248 <213> ORGANISM: Homo sapiens  
 250 <220> FEATURE:  
 251 <221> NAME/KEY: misc\_feature  
 252 <222> LOCATION: 62, 91, 105, 195, 294  
 253 <223> OTHER INFORMATION: n = A,T,C or G  
 255 <400> SEQUENCE: 13  
 256 caatgtttag attcatttta ttagtggcat atacaaagca ccatataata tatgaaacgt 60  
 W--> 257 anaacaatca tgactatgtt attaactgtt aaaaataactg ctaanaaaat atagcaatat 120  
 258 ttaacacagg aittotaaaa ccattatatt ttcattatctt ttcccaaaagc taatgtccca 180  
 W--> 259 tgttttattt tatanacttt gtttatcaag atttatatgc atttggcacc ttttggct 240  
 W--> 260 gaaaatagt gatgtactct gtacagtaat gttacagttt tataaaaaat tcaaaaaatat 300  
 261 tgcatttggg atagtcttta tggccttcc ccaagtattc agtttcacac aacagcaaac 360  
 262 actctgaatg ccttccctcc tgcccaacac aatg 394  
 264 <210> SEQ ID NO: 14  
 265 <211> LENGTH: 361  
 266 <212> TYPE: DNA  
 267 <213> ORGANISM: Homo sapiens  
 269 <220> FEATURE:  
 270 <221> NAME/KEY: misc\_feature  
 271 <222> LOCATION: 7, 249, 258  
 272 <223> OTHER INFORMATION: n = A,T,C or G  
 274 <400> SEQUENCE: 14  
 W--> 275 agcaggnaact ataattttat aattaatttt acaattcatg tagcaaatgg aaaatcatac 60  
 276 agagaggcca afgtatataa ataagagttt atacagaaac tgccaatca caaaacagca 120  
 277 ctgcatgggt tctatattgc aagcacaaga catggtcaca tggttccact gtacaggtag 180  
 278 aaacaagccc acagacaata catagagttc cacctgaaac gaggcccttg gagctgctca 240  
 W--> 279 gcttcttana aaataganaa ctttcaatgg tcataataca ttttggatca aaatgtcttc 300  
 280 taaaatgttt tcattgtggg agaaaaattaa gaagggccaa aaatccatct atgaaacttc 360  
 281 t 361  
 283 <210> SEQ ID NO: 15  
 284 <211> LENGTH: 537  
 285 <212> TYPE: DNA  
 286 <213> ORGANISM: Homo sapiens  
 288 <220> FEATURE:  
 289 <221> NAME/KEY: misc\_feature  
 290 <222> LOCATION: 460  
 291 <223> OTHER INFORMATION: n = A,T,C or G  
 293 <400> SEQUENCE: 15

Use of n and/or Xaa has been detected in the Sequence Listing.  
 Review the Sequence Listing to insure a corresponding  
 explanation is presented in the <220> to <223> fields of  
 each sequence using n or Xaa.

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L:26 M:270 C: Current Application Number differs, Wrong Format  
L:70 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:111 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:197 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:213 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11  
L:217 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11  
L:236 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
L:257 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:259 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:260 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:275 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:279 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:301 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15  
L:315 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16  
L:322 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16  
L:475 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27  
L:511 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29  
L:552 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31  
L:596 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33  
L:600 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33  
L:601 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33  
L:605 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33  
L:880 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42  
L:906 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43  
L:930 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44  
L:931 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44  
L:950 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45  
L:963 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46  
L:969 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46  
L:983 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47  
L:1040 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50  
L:1041 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50  
L:1088 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53  
L:1090 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53  
L:1132 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56  
L:1133 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56  
L:1134 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56  
L:1147 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57  
L:1154 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57  
L:1167 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58  
L:1173 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58  
L:1188 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59  
L:1189 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59  
L:1190 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59  
L:1191 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59  
L:1204 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60  
L:1223 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61

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L:1224 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61

L:1225 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61

L:1227 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61